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DIALOG(R) File 351: Derwent WPI

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Electrical insulation oil - contains vegetable oil and aliphatic dibasic acid ester

Patent Assignee: NICHICON CAPACITOR LTD (NICJ)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 61042816	A	19860301				198615 B
JP 93001567	B	19930108	JP 84165342	A	19840806	199305

Priority Applications (No Type Date): JP 84165342 A 19840806

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 61042816	A		3		
JP 93001567	B		3	H01B-003/20	Based on patent JP 61042816

Abstract (Basic): JP 61042816 A

The oil (I) comprises a vegetable oil, such as cotton seed, soybean oil, rapeseed oil, or castor oil, admixed with 20% or more of aliphatic dibasic acid ester (II) in which the number of carbon atoms of the alkyl gp. linked to the ester gp. of the aliphatic ester is 8-10. (II) includes di2-ethylhexyl adipate, di2-ethylhexyl azelate, and di2-ethylhexyl sebacate.

USE/ADVANTAGE - For use in electric appliances such as capacitor and transformers. (I) has lowered pour point and is able to limit the swelling of the polypropylene film in wide use to the same extent as with vegetable oils. However, the permittivity of (I) is not lowered at all. (I) improves the reliability of electric appliances at low temps.. (3pp Dwg.No.0/2)

Title Terms: ELECTRIC; INSULATE; OIL; CONTAIN; VEGETABLE; OIL; ALIPHATIC; DI; BASIC; ACID; ESTER

Derwent Class: A85; E17; H08; L03

International Patent Class (Main): H01B-003/20

International Patent Class (Additional): C10M-101/04; C10M-105/36; C10M-111/02; C10M-129/72; C10M-169/04; C10N-030/02; C10N-040/16

File Segment: CPI

Manual Codes (CPI/A-N): A04-G03E1; A12-E01; E10-G02G; H08-D08; L03-B02D; L03-B03

Plasdoc Codes (KS): 0231 0248 2513 2570 3249 2742 3276

Polymer Fragment Codes (PF):

001 014 04- 041 046 050 435 51& 532 533 534 55& 623 627 688 694

Chemical Fragment Codes (M3):

01 J0 J012 J2 J272 M220 M222 M223 M224 M231 M232 M233 M272 M282 M311 M312 M313 M314 M315 M321 M331 M332 M333 M342 M382 M391 M416 M620 M781 M903 Q417 Q454 Q609 Q610 R023